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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L16</u>	L15 and (urethane or urethan)	13	<u>L16</u>
<u>L15</u>	L13 and graft\$3	13	<u>L15</u>
<u>L14</u>	L13 and ((urethan adj grafted) or (urethane adj grafted))	0	<u>L14</u>
<u>L13</u>	L12 and ((hydroxyl adj functional) or (hydroxy adj group) or (hydroxyl adj group) or (hydroxy adj functional))	17	<u>L13</u>
<u>L12</u>	L11 and (aminopropanol or (hexyl amine) or (amino adj group) or amine)	17	<u>L12</u>
<u>L11</u>	L10 and (cyclic adj carbonate)	17	<u>L11</u>
<u>L10</u>	L9 and ((glycidyl adj acrylate) or (glycidyl adj methacrylate) or (allyl adj glycidyl ether) or (glycidyl adj crotonate))	234	<u>L10</u>
<u>L9</u>	L8 and L1	318	<u>L9</u>
<u>L8</u>	acrylic graft adj polymer	313675	<u>L8</u>
<u>L7</u>	3479328.pn.	3	<u>L7</u>
<u>L6</u>	4340497.pn.	4	<u>L6</u>
<u>L5</u>	L4 and (hydroxyl adj functional)	10	<u>L5</u>
<u>L4</u>	L3 and (aminopropanol or (hexyl adj amine) or (amine adj group))	13	<u>L4</u>
<u>L3</u>	L2 and graft\$3	13	<u>L3</u>
<u>L2</u>	L1 and ((cyclic adj carbonate adj group) or (cyclic adj carbonate adj moiety) or (cyclic adj carbonate) or (cyclic adj carbonate adj functional))	17	<u>L2</u>
<u>L1</u>	(acrylate adj backbone) or (acrylic adj backbone)	334	<u>L1</u>

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Terms	Documents
L15 and (urethane or urethan)	13

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Search:

L16

[Refine Search](#)[Recall Text](#)[Clear](#)**Search History****DATE:** **Wednesday, September 25, 2002** [Printable Copy](#) [Create Case](#)

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 13 of 13 returned.**☐ 1. Document ID: US 20020056641 A1

L16: Entry 1 of 13

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020056641
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020056641 A1

TITLE: Cured multilayer coating providing improved edge corrosion resistance to a substrate and a method of making same

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester	MI	US	

US-CL-CURRENT: 204/484; 204/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 2. Document ID: US 20020055576 A1

L16: Entry 2 of 13

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055576
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020055576 A1

TITLE: Pigment dispersants having anionic functionality for use in anodic electrocoat compositions

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester	MI	US	

US-CL-CURRENT: 524/423; 524/495, 528/392

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 3. Document ID: US 20020055575 A1

L16: Entry 3 of 13

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055575
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020055575 A1

TITLE: Pigment dispersants having anionic functionality for use in anodic electrocoat compositions

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester	MI	US	

US-CL-CURRENT: 524/423; 524/495, 528/392

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 4. Document ID: US 20020014412 A1

L16: Entry 4 of 13

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020014412
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020014412 A1

TITLE: Multilayer coating and process for its production

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester Hills	MI	US	

US-CL-CURRENT: 204/484; 204/493, 204/500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 5. Document ID: US 20020002245 A1

L16: Entry 5 of 13

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002245
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020002245 A1

TITLE: Cathodic electrocoat having a carbamate functional resin and a carbamate functional reactive additive

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester	MI	US	
Ohrbom, Walter H.	Hartland Township	MI	US	

US-CL-CURRENT: 525/163

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 6. Document ID: US 6376616 B1

L16: Entry 6 of 13

File: USPT

Apr 23, 2002

US-PAT-NO: 6376616

DOCUMENT-IDENTIFIER: US 6376616 B1

TITLE: Pigment dispersants having anionic functionality for use in anodic electrocoat compositions

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		

US-CL-CURRENT: 525/278

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 7. Document ID: US 6342144 B1

L16: Entry 7 of 13

File: USPT

Jan 29, 2002

US-PAT-NO: 6342144

DOCUMENT-IDENTIFIER: US 6342144 B1

TITLE: Cured multilayer coating and processing for its production

DATE-ISSUED: January 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		

US-CL-CURRENT: 204/488; 204/484, 204/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 8. Document ID: US 6312576 B1

L16: Entry 8 of 13

File: USPT

Nov 6, 2001

US-PAT-NO: 6312576

DOCUMENT-IDENTIFIER: US 6312576 B1

TITLE: Multilayer electrodeposited composition

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		

US-CL-CURRENT: 204/484, 204/493, 525/481, 525/510

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 9. Document ID: US 6303690 B1

L16: Entry 9 of 13

File: USPT

Oct 16, 2001

US-PAT-NO: 6303690

DOCUMENT-IDENTIFIER: US 6303690 B1

TITLE: Cathodic electrocoat having a carbamate functional resin and a carbamate functional reactive additive

DATE-ISSUED: October 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		
Ohrbom; Walter H	Hartland Township	MI		

US-CL-CURRENT: 525/163, 204/501, 204/504, 204/505, 204/506, 525/123, 525/142, 525/157, 525/328.2, 525/484, 525/528, 525/533

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 10. Document ID: US 6165338 A

L16: Entry 10 of 13

File: USPT

Dec 26, 2000

US-PAT-NO: 6165338

DOCUMENT-IDENTIFIER: US 6165338 A

TITLE: Cathodic electrocoat having a carbamate functional resin

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		
Ohrbom; Walter H	Hartland Township	MI		
Menovcik; Gregory G.	Farmington Hills	MI		

US-CL-CURRENT: 204/506, 528/196, 528/203, 528/421, 528/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC

☐ 11. Document ID: US 6048443 A

L16: Entry 11 of 13

File: USPT

Apr 11, 2000

US-PAT-NO: 6048443

DOCUMENT-IDENTIFIER: US 6048443 A

TITLE: Low bake cathodic electrocoat having dual cure mechanism

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		
Ohrbom; Walter H	Hartland Township	MI		
Menovcik; Gregory G.	Farmington Hills	MI		

US-CL-CURRENT: 204/506; 525/481, 525/510

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC

☐ 12. Document ID: US 5536776 A

L16: Entry 12 of 13

File: USPT

Jul 16, 1996

US-PAT-NO: 5536776

DOCUMENT-IDENTIFIER: US 5536776 A

TITLE: Pigment dispersants with primary amine functionality suitable for use in cathodic electrocoat compositions

DATE-ISSUED: July 16, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carpenter; Clint W.	Royal Oak	MI		
December; Timothy S.	Rochester	MI		
Hardigan; William D.	Highland	MI		

US-CL-CURRENT: 524/556; 523/404, 524/555, 526/227, 526/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC

☐ 13. Document ID: US 5527614 A

L16: Entry 13 of 13

File: USPT

Jun 18, 1996

US-PAT-NO: 5527614

DOCUMENT-IDENTIFIER: US 5527614 A

TITLE: Pigment dispersants with primary amine functionality suitable for use in cathodic electrocoat compositions

DATE-ISSUED: June 18, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carpenter; Clint W.	Royal Oak	MI		
December; Timothy S.	Rochester	MI		
Hardigan; William D.	Highland	MI		

US-CL-CURRENT: 428/418; 204/502, 204/503, 204/504, 523/404, 525/123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC

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Terms	Documents
L15 and (urethane or urethan)	13

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L5: Entry 1 of 10

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020056641
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020056641 A1

TITLE: Cured multilayer coating providing improved edge corrosion resistance to a substrate and a method of making same

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester	MI	US	

US-CL-CURRENT: [204/484](#); [204/487](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
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☐ 2. Document ID: US 20020055576 A1

L5: Entry 2 of 10

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055576
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020055576 A1

TITLE: Pigment dispersants having anionic functionality for use in anodic electrocoat compositions

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester	MI	US	

US-CL-CURRENT: [524/423](#); [524/495](#), [528/392](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw	Desc	Image									

☐ 3. Document ID: US 20020055575 A1

L5: Entry 3 of 10

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055575
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020055575 A1

TITLE: Pigment dispersants having anionic functionality for use in anodic electrocoat compositions

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester	MI	US	

US-CL-CURRENT: 524/423; 524/495, 528/392

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 4. Document ID: US 20020014412 A1

L5: Entry 4 of 10

File: PGPB

Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020014412
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020014412 A1

TITLE: Multilayer coating and process for its production

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester Hills	MI	US	

US-CL-CURRENT: 204/484; 204/493, 204/500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 5. Document ID: US 20020002245 A1

L5: Entry 5 of 10

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002245
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020002245 A1

TITLE: Cathodic electrocoat having a carbamate functional resin and a carbamate functional reactive additive

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
December, Timothy S.	Rochester	MI	US	
Ohrbom, Walter H.	Hartland Township	MI	US	

US-CL-CURRENT: 525/163

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWWC

☐ 6. Document ID: US 6376616 B1

L5: Entry 6 of 10

File: USPT

Apr 23, 2002

US-PAT-NO: 6376616

DOCUMENT-IDENTIFIER: US 6376616 B1

TITLE: Pigment dispersants having anionic functionality for use in anodic electrocoat compositions

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		

US-CL-CURRENT: 525/278

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWWC

☐ 7. Document ID: US 6342144 B1

L5: Entry 7 of 10

File: USPT

Jan 29, 2002

US-PAT-NO: 6342144

DOCUMENT-IDENTIFIER: US 6342144 B1

TITLE: Cured multilayer coating and processing for its production

DATE-ISSUED: January 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		

US-CL-CURRENT: 204/488; 204/484, 204/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWWC

☐ 8. Document ID: US 6303690 B1

L5: Entry 8 of 10

File: USPT

Oct 16, 2001

US-PAT-NO: 6303690

DOCUMENT-IDENTIFIER: US 6303690 B1

TITLE: Cathodic electrocoat having a carbamate functional resin and a carbamate functional reactive additive

DATE-ISSUED: October 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		
Ohrbom; Walter H	Hartland Township	MI		

US-CL-CURRENT: 525/163; 204/501, 204/504, 204/505, 204/506, 525/123, 525/142, 525/157, 525/328.2, 525/484, 525/528, 525/533

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC

☐ 9. Document ID: US 6165338 A

L5: Entry 9 of 10

File: USPT

Dec 26, 2000

US-PAT-NO: 6165338

DOCUMENT-IDENTIFIER: US 6165338 A

TITLE: Cathodic electrocoat having a carbamate functional resin

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		
Ohrbom; Walter H	Hartland Township	MI		
Menovcik; Gregory G.	Farmington Hills	MI		

US-CL-CURRENT: 204/506; 528/196, 528/203, 528/421, 528/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 10. Document ID: US 6048443 A

L5: Entry 10 of 10

File: USPT

Apr 11, 2000

US-PAT-NO: 6048443

DOCUMENT-IDENTIFIER: US 6048443 A

TITLE: Low bake cathodic electrocoat having dual cure mechanism

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
December; Timothy S.	Rochester	MI		
Ohrbom; Walter H	Hartland Township	MI		
Menovcik; Gregory G.	Farmington Hills	MI		

US-CL-CURRENT: 204/506; 525/481, 525/510

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC

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Terms	Documents
L4 and (hydroxyl adj functional)	10

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Search History
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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L7</u>	3479328.pn.	3	<u>L7</u>
<u>L6</u>	4340497.pn.	4	<u>L6</u>
<u>L5</u>	L4 and (hydroxyl adj functional)	10	<u>L5</u>
<u>L4</u>	L3 and (aminopropanol or (hexyl adj amine) or (amine adj group))	13	<u>L4</u>
<u>L3</u>	L2 and graft\$3	13	<u>L3</u>
<u>L2</u>	L1 and ((cyclic adj carbonate adj group) or (cyclic adj carbonate adj moiety) or (cyclic adj carbonate) or (cyclic adj carbonate adj functional))	17	<u>L2</u>
<u>L1</u>	(acrylate adj backbone) or (acrylic adj backbone)	334	<u>L1</u>

END OF SEARCH HISTORY